

Abstract of the Invention

Methods and computer-executable components for real-time scheduling of CPU resources are disclosed. A performance counter determines when to allocate CPU resources to a thread. When it is time to allocate the CPU resources, the performance counter issues a non-
5 maskable interrupt to an advanced programmable interrupt controller (APIC). The APIC then issues a non-maskable interrupt to the CPU. In response to receiving the non-maskable interrupt, the CPU allocates resources to the thread.